NYC 9/11 Public Portal Document

ATC ASSOCIATES INC - NEW YORK BULK ASBESTOS ANALYSIS SHEET

104 East 25th Street, 10th Floor · New York, NY 10010 · Phone (212) 353 - 8280, FAX (212) 353 - 3599 or 8306

NYLAP 101187
ELAP 10878
Microscope OLYMPUS BH 2

Client / Project NYC - DOE / HS FOR LEADERSHIP & PUBLIC SERVICE - M894 — Project No. 14584-0864
90 TRINITY PLACE, NEW YORK, NY 10006

Analysis Date 03/14/02 — Analyst E. A. CABRERA — Batch No 2037

1 Field No. 01	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required ☐	Color Brown — Texture Fib.	Morphology ___ — Extinction ___	___ Chrysotile	20 Cellulose	5 Mineral Filler	___ Organic
Recommended ☐	Homogenity Y	RI ∥ ___ — RI ⊥ ___	___ Amosite	___ Fiberglass	___ Organic Binders	___ Residue
Gravimetric PREP ☐	# of Layers ___ — Asbestos ☐ ☑	DS Color ___ — Color,Pleo ___	___ Other	25 Other SYNTHETIC & HAIR	___ Vermiculite	___ Carbonate
Gravimetric (NOB) PLM ☐	Color of Layer ___ — Detected Yes No	Biref ___ — Sign ___			___ Other	___ Other
Gravimetric (NOB) TEM ☐	Comments:			O.C. ☐		___ Asbestos
POINT COUNT RESULTS ON THE BACK	Method: ☐ ELAP + EPA' ☐ ELAP ☐ EPA' ☐ OTHER ☑ SCANNING OPTION: ELAP (P.C.) & EPA' First 4 preps. Asbestos = 0					

2 Field No. 02	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required ☐	Color Brown — Texture Fib.	Morphology ___ — Extinction ___	___ Chrysotile	78 Cellulose	2 Mineral Filler	___ Organic
Recommended ☐	Homogenity Y	RI ∥ ___ — RI ⊥ ___	___ Amosite	___ Fiberglass	___ Organic Binders	___ Residue
Gravimetric PREP ☐	# of Layers ___ — Asbestos ☐ ☑	DS Color ___ — Color,Pleo ___	___ Other	20 Other SYNTHETIC & HAIR	___ Vermiculite	___ Carbonate
Gravimetric (NOB) PLM ☐	Color of Layer ___ — Detected Yes No	Biref ___ — Sign ___			___ Other	___ Other
Gravimetric (NOB) TEM ☐	Comments:			O.C. ☐		___ Asbestos
POINT COUNT RESULTS ON THE BACK	Method: ☐ ELAP + EPA' ☐ ELAP ☐ EPA' ☐ OTHER ☑ SCANNING OPTION: ELAP (P.C.) & EPA' First 4 preps. Asbestos = 0					

3 Field No. 03	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required ☐	Color Brown / White Texture Fib.	Morphology ___ — Extinction ___	___ Chrysotile	35 Cellulose	5 Mineral Filler	___ Organic
Recommended ☐	Homogenity N	RI ∥ ___ — RI ⊥ ___	___ Amosite	___ Fiberglass	___ Organic Binders	___ Residue
Gravimetric PREP ☐	# of Layers ___ — Asbestos ☐ ☑	DS Color ___ — Color,Pleo ___	___ Other	60 Other FEATHER & SYNTHETIC	___ Vermiculite	___ Carbonate
Gravimetric (NOB) PLM ☐	Color of Layer ___ — Detected Yes No	Biref ___ — Sign ___			___ Other	___ Other
Gravimetric (NOB) TEM ☐	Comments:			O.C. ☐		___ Asbestos
POINT COUNT RESULTS ON THE BACK	Method: ☐ ELAP + EPA' ☐ ELAP ☐ EPA' ☐ OTHER ☑ SCANNING OPTION: ELAP (P.C.) & EPA' First 4 preps. Asbestos = 0					

4 Field No. 04	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required ☐	Color Brown/White Texture Fib.	Morphology ___ — Extinction ___	___ Chrysotile	45 Cellulose	2 Mineral Filler	___ Organic
Recommended ☐	Homogenity N	RI ∥ ___ — RI ⊥ ___	___ Amosite	___ Fiberglass	3 Organic Binders	___ Residue
Gravimetric PREP ☐	# of Layers ___ — Asbestos ☐ ☑	DS Color ___ — Color,Pleo ___	___ Other	50 Other FEATHER & SYNTHETIC	___ Vermiculite	___ Carbonate
Gravimetric (NOB) PLM ☐	Color of Layer ___ — Detected Yes No	Biref ___ — Sign ___			___ Other	___ Other
Gravimetric (NOB) TEM ☐	Comments:			O.C. ☐		___ Asbestos
POINT COUNT RESULTS ON THE BACK	Method: ☐ ELAP + EPA' ☐ ELAP ☐ EPA' ☐ OTHER ☑ SCANNING OPTION: ELAP (P.C.) & EPA' First 4 preps. Asbestos = 0					

SUBJECT TO PROTECTIVE ORDER NO. 2, SEPT. 2008 CONFIDENTIAL, CITY_21MC100_0034591 95

NYC-WTC_000179424

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ATC ASSOCIATES INC - NEW YORK BULK ASBESTOS ANALYSIS SHEET

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NYLAP 101187
ELAP 10872
Microscope OLYMPUS BH-2

Client / Project NYC - BOE / HS FOR LEADERSHIP & PUBLIC SERVICE - M894 — 90 TRINITY PLACE, NEW YORK, NY 10006 — Project No 14554-0564

Analysis Date 03/14/02 — Analyst E. A. CLARKE JR. — Batch No 2037

	Field No.	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
1	05	Color GRAY; Texture FIB.; Homogenity Y; # of Layers ___; Asbestos ☐ ☒; Color of Layer ___; Detected Yes No	Morphology ___; Extinction ___; RI ___; RI ___; OS Color ___; Color,Pleo ___; Birel ___; Sign ___	Chrysotile / Amosite / Other	75 Cellulose; ___ Fiberglass; 20 Other SYNTHETIC & HAIR	5 Mineral Filler; ___ Organic Binders; ___ Vermiculite; ___ Other	___ Organic; ___ Residue; ___ Carbonate; ___ Other; ___ Asbestos
		Comments:			O.C. ☐		
		Method: ☐ ELAP + EPA ☐ ELAP ☐ EPA ☐ OTHER ☒ SCANNING OPTION: ELAP (P.C.) & EPA First 4 preps Asbestos = 0					
2	06	Color BROWN; Texture FIB.; Homogenity Y; # of Layers ___; Asbestos ☐ ☒; Color of Layer ___; Detected Yes No	Morphology ___; Extinction ___; RI ___; RI ___; OS Color ___; Color,Pleo ___; Birel ___; Sign ___	Chrysotile / Amosite / Other	70 Cellulose; ___ Fiberglass; 23 Other SYNTHETIC & HAIR	7 Mineral Filler; ___ Organic Binders; ___ Vermiculite; ___ Other	___ Organic; ___ Residue; ___ Carbonate; ___ Other; ___ Asbestos
		Comments:			O.C. ☐		
		Method: ☐ ELAP + EPA ☐ ELAP ☐ EPA ☐ OTHER ☒ SCANNING OPTION: ELAP (P.C.) & EPA First 4 preps Asbestos = 0					
3	07	Color BROWN; Texture FIB.; Homogenity Y; # of Layers ___; Asbestos ☐ ☒; Color of Layer ___; Detected Yes No	Morphology ___; Extinction ___; RI ___; RI ___; OS Color ___; Color,Pleo ___; Birel ___; Sign ___	Chrysotile / Amosite / Other	55 Cellulose; ___ Fiberglass; 40 Other SYNTHETIC & HAIR	5 Mineral Filler; ___ Organic Binders; ___ Vermiculite; ___ Other	___ Organic; ___ Residue; ___ Carbonate; ___ Other; ___ Asbestos
		Comments:			O.C. ☐		
		Method: ☐ ELAP + EPA ☐ ELAP ☐ EPA ☐ OTHER ☒ SCANNING OPTION: ELAP (P.C.) & EPA First 4 preps Asbestos = 0					
4	08	Color BROWN; Texture FIB.; Homogenity Y; # of Layers ___; Asbestos ☐ ☒; Color of Layer ___; Detected Yes No	Morphology ___; Extinction ___; RI ___; RI ___; OS Color ___; Color,Pleo ___; Birel ___; Sign ___	Chrysotile / Amosite / Other	60 Cellulose; ___ Fiberglass; 35 Other SYNTHETIC & HAIR	5 Mineral Filler; ___ Organic Binders; ___ Vermiculite; ___ Other	___ Organic; ___ Residue; ___ Carbonate; ___ Other; ___ Asbestos
		Comments:			O.C. ☐		
		Method: ☐ ELAP + EPA ☐ ELAP ☐ EPA ☐ OTHER ☒ SCANNING OPTION: ELAP (P.C.) & EPA First 4 preps Asbestos = 0					

Gravimetric (NOB) Required ☐ Recommended ☐ Gravimetric PREP ☐ Gravimetric (NOB) PLM ☐ Gravimetric (NOB) TEM ☐

POINT COUNT RESULTS ON THE BACK

SUBJECT TO PROTECTIVE ORDER NO. 2, SEPT. 2008 CONFIDENTIAL, CITY_21MC100_00345919 6

NYC-WTC_000179425

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ATC ASSOCIATES INC - NEW YORK BULK ASBESTOS ANALYSIS SHEET

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NYLAP 101187
ELAP 10870
Microscope OLYMPUS BH-2

Client / Project NYC-BOE/HS FOR LEADERSHIP & PUBLIC SERVICE M894 — 90 TRINITY PLACE, NEW YORK, NY 10006 — Project No. 14534-0864

Analysis Date 03/14/02 — Analyst E. A. CLARKE — Batch No 2037

	Field No.	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
1	C9	Color Brown; Texture Fib.; Homogenity Y; # of Layers ___; Color of Layer ___; Asbestos Detected: Yes ☐ No ☒	Morphology ___; Extinction ___; RI ∥ ___; RI ⊥ ___; DS Color ___; Color,Pleo ___; Biref ___; Sign ___	Chrysotile ___; Amosite ___; Other /	60 Cellulose; ___ Fiberglass; 35 Other SYNTHETIC & HAIR	5 Mineral Filler; ___ Organic Binders; ___ Vermiculite; ___ Other	___ Organic; ___ Residue; ___ Carbonate; ___ Other; ___ Asbestos
2	1C	Color Brown; Texture Fib.; Homogenity Y; # of Layers ___; Color of Layer ___; Asbestos Detected: Yes ☐ No ☒	Morphology ___; Extinction ___; RI ∥ ___; RI ⊥ ___; DS Color ___; Color,Pleo ___; Biref ___; Sign ___	Chrysotile ___; Amosite ___; Other /	45 Cellulose; ___ Fiberglass; 50 Other HAIR & SYNTHETIC	5 Mineral Filler; ___ Organic Binders; ___ Vermiculite; ___ Other	___ Organic; ___ Residue; ___ Carbonate; ___ Other; ___ Asbestos
3		Color ___; Texture ___; Homogenity ___; # of Layers ___; Color of Layer ___; Asbestos Detected: Yes ☐ No ☐	Morphology ___; Extinction ___; RI ∥ ___; RI ⊥ ___; DS Color ___; Color,Pleo ___; Biref ___; Sign ___	Chrysotile ___; Amosite ___; Other ___	___ Cellulose; ___ Fiberglass; ___ Other	___ Mineral Filler; ___ Organic Binders; ___ Vermiculite; ___ Other	___ Organic; ___ Residue; ___ Carbonate; ___ Other; ___ Asbestos
4		Color ___; Texture ___; Homogenity ___; # of Layers ___; Color of Layer ___; Asbestos Detected: Yes ☐ No ☐	Morphology ___; Extinction ___; RI ∥ ___; RI ⊥ ___; DS Color ___; Color,Pleo ___; Biref ___; Sign ___	Chrysotile ___; Amosite ___; Other ___	___ Cellulose; ___ Fiberglass; ___ Other	___ Mineral Filler; ___ Organic Binders; ___ Vermiculite; ___ Other	___ Organic; ___ Residue; ___ Carbonate; ___ Other; ___ Asbestos

Gravimetric (NOB) Required ☐ Recommended ☐ Gravimetric PREP ☐ Gravimetric (NOB) PLM ☐ Gravimetric (NOB) TEM ☐ — POINT COUNT RESULTS ON THE BACK

Comments:

Method: ☐ ELAP + EPA¹ ☐ ELAP ☐ EPA¹ ☐ OTHER ☒ SCANNING OPTION: ELAP (P.C.) & EPA¹ First 4 preps. Asbestos = 0

O.C. ☐ (1) ☒ (2) ND /// (2)

CONFIDENTIAL, SUBJECT TO PROTECTIVE ORDER NO. 2, SEPT. 2008

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NYC-WTC_000179426